

6307015

ggcc	gga	cag	tcc	gcc	gag	gtg	ctc	ggt	gga	gtc	atg	gca	gtg	ccc	ttt	gtg	gaa	gac	tgg
D	L	V	Q	T	L	G	E	G	A	Y	G	E	V	Q	L	A	V	N	R
gta	act	gaa	gaa	gca	gtc	gca	gtg	aag	att	gta	gat	atg	aag	cgt	gcc	gta	gac	tgt	cca
V	T	E	E	A	V	A	V	K	I	V	D	M	K	R	A	V	D	C	P
gaa	aat	att	aag	aaa	gag	atc	tgt	atc	aat	aaa	atg	cta	aat	cat	gaa	aat	gta	gta	aaa
E	N	I	K	K	E	I	C	I	N	K	M	L	N	H	E	N	V	V	K
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G	E	L	F	D	R	I	E	P	D	I	G	M	P	E	P	D	A	Q	R
ttc	ttc	cat	caa	ctc	atg	gca	ggg	gtg	gtt	tat	ctg	cat	ggt	att	gga	ata	act	cac	agg
F	F	H	Q	L	M	A	G	V	V	Y	L	H	G	I	G	I	T	H	R
gat	att	aaa	cca	gaa	aat	ctt	ctg	ttg	gat	gaa	agg	gat	aac	ctc	aaa	atc	tca	gac	ttt
D	I	K	P	E	N	L	L	L	D	E	R	D	N	L	K	I	S	D	F
ggc	ttg	gca	aca	gta	ttt	cgg	tat	aat	aat	cgt	gag	cgt	ttg	ttg	aac	aag	atg	tgt	ggt
G	L	A	T	V	F	R	Y	N	N	R	E	R	L	L	N	K	M	C	G
act	tta	cca	tat	gtt	gct	cca	gaa	ctt	ctg	aag	aga	aga	gaa	ttt	cat	gca	gga	cca	gtt
T	L	P	Y	V	A	P	E	L	L	K	R	R	E	F	H	A	E	P	V
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D	V	W	S	C	G	I	V	L	T	A	M	L	A	G	E	L	P	W	D
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Q	P	S	D	S	C	Q	E	Y	S	D	W	K	E	K	K	T	Y	L	N
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P	W	K	K	I	D	S	A	P	L	A	L	L	H	K	I	L	V	E	N
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K	K	G	A	K	R	P	R	V	T	S	G	G	V	S	E	S	P	S	G
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T	S	P	S	Y	I	D	K	L	V	Q	G	I	S	F	S	Q	P	T	C
cct	gat	cat	atg	ctt	ttg	aat	agt	cag	tta	ctt	ggc	acc	cca	gga	tcc	tca	cag	aac	ccc
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W	Q	R	L	V	K	R	M	T	R	F	F	T	K	L	D	A	D	K	S
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Y	Q	C	L	K	E	T	C	E	K	L	G	Y	Q	W	K	K	S	C	M
aat	cag	gtt	act	ata	tca	aca	act	gat	agg	aga	aac	aat	aaa	ctc	att	ttc	aaa	gtg	aat
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L	L	E	M	D	D	K	I	L	V	D	F	R	L	S	K	G	D	G	L
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K	V	W	L	P	A	T													
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ttt	atc	aaa	aca	ttt	tgt	tt													

FIG. 1

gctt	gtc	gct	gtg	ctt	gga	gtc	atg	gca	gtg	cct	ttt	gtg	gaa	gac	tgg	gat	ttg	gtg	caa
act	ttg	gga	gaa	ggg	gcc	tat	gga	gaa	gtt	caa	ctt	gct	gtg	aat	ago	ata	act	gaa	caa
T	L	G	E	G	A	Y	G	E	V	Q	L	A	V	N	R	I	T	E	Q
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A	V	A	V	K	I	V	D	M	K	R	A	I	D	C	P	Q	N	I	K
aaa	gag	atc	tgc	atc	aat	aaa	atg	tta	agc	cac	gag	aat	gta	gtg	aaa	ttc	tat	ggc	cac
K	E	I	C	I	N	K	M	L	S	H	E	N	V	V	K	F	Y	G	H
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R	R	E	G	H	I	Q	Y	L	F	L	E	Y	C	S	G	G	E	L	F
gat	aga	att	gag	cca	gac	ata	ggg	atg	cct	gaa	caa	gat	gct	cag	agg	ttc	ttc	cac	caa
D	R	I	E	P	D	I	G	M	P	E	Q	D	A	Q	R	F	F	H	Q
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L	M	A	G	V	V	Y	L	H	G	I	G	I	T	H	R	D	I	K	P
gaa	aac	ctc	ctc	ttg	gat	gaa	agg	gat	aac	ctc	aaa	atc	tct	gac	ttt	ggc	ttg	gca	acg
E	N	L	L	L	D	E	R	D	N	L	K	I	S	D	F	G	L	A	T
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gtt	gct	ccg	gag	ctt	cta	aag	aga	aaa	gaa	ttt	cat	gca	gaa	cca	gtt	gat	gtt	tgg	tcc
V	A	P	E	L	L	K	R	K	E	P	H	A	E	P	V	D	V	W	S
tgt	gga	ata	gta	ctt	act	gca	atg	ttg	gct	gga	gaa	ttg	ccg	tgg	gac	cag	ccc	agt	gat
C	G	I	V	L	T	A	M	L	A	G	E	L	P	W	D	Q	P	S	D
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S	C	Q	E	Y	S	D	W	K	E	K	K	T	Y	L	N	P	W	K	K
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I	D	S	A	P	L	A	L	L	H	K	I	L	V	E	T	P	S	A	R
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I	T	I	P	D	I	K	K	D	R	W	Y	N	K	P	L	N	R	G	A
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K	R	P	R	A	T	S	G	G	M	S	E	S	S	S	G	F	S	K	H
att	cat	tcc	aat	ttg	gac	ttt	tct	cca	gta	aat	aat	ggt	tcc	agt	gaa	gaa	acc	gtg	aag
I	H	S	N	L	D	F	S	P	V	N	N	G	S	S	E	E	T	V	K
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F	S	S	S	Q	P	E	P	R	T	G	L	S	L	W	D	T	G	P	S
aac	gtg	gac	aaa	ctg	gtt	cag	ggc	atc	agt	ttt	tcc	cag	cct	acg	tgt	cct	gag	cat	atg
N	V	D	K	L	V	Q	G	I	S	F	S	Q	P	T	C	P	E	H	M
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L	V	N	S	Q	L	Q	G	T	P	G	F	S	Q	N	P	W	Q	R	L
gtc	aaa	agg	atg	aca	cga	ttc	ttt	act	aaa	ttg	gat	gca	gac	aaa	tct	tac	caa	tgc	ctg
V	K	R	M	T	R	F	F	T	K	L	D	A	D	K	S	Y	Q	C	L
aaa	gag	acc	ttc	gag	aag	ttg	ggc	tat	cag	tgg	aag	aag	agt	tgt	atg	aat	cag	gtt	act
K	E	T	F	E	K	L	G	Y	Q	W	K	K	S	C	M	N	Q	V	T
gta	tca	aca	act	gat	aga	aga	aac	aat	aag	ttg	att	ttc	aaa	ata	aat	ttg	gta	gaa	atg
V	S	T	T	D	R	R	N	N	K	L	I	F	K	I	N	L	V	E	M
gat	gag	aag	ata	ctg	gtt	gac	ttc	cga	ctt	tct	aag	ggt	gat	gga	tta	gag	ttc	aag	aga
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cac	ttc	ctg	aag	att	aaa	ggg	aag	ctc	agc	gat	gtt	gtg	agc	agc	cag	aag	gtt	tgg	ttt
H	F	L	K	I	K	G	K	L	S	D	V	V	S	S	Q	K	V	W	F
cct	gtt	aca	tga	gga	agc	tgt	cag	ctc	tgc	aca	ttc	ctg	gtg	aat	aga	gtg	ctg	cta	tgt
P	V	T	*																
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gag	ttc	tct	tcc	cat	tac	cca	aac	atc	ttc	cga	ttt	gta	gtg	caa	ggc	ata	caa	ata	cta
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gca	aaa	tat	ttt	ctt	ctc	tgc	cta	ttt	aat	tgt	aag	gat	gaa	taa	aca	cag	acc	ata	tac
agt	tga	ttg	gtt	cat	gaa	tga	ggc	cag	cca	caa	aaa	tgt	gta	tgt	taa	tgt	atg	tac	tgt
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FIG. 2

FIG. 3

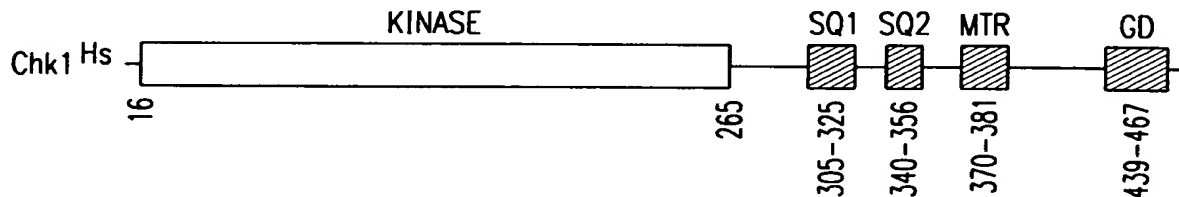


FIG. 4

Hs	1	-----MAVPFVED--WDLVQTLGEGAYGEVQLAVNRVT--EEAVAVKIVDMK-----RAVDCP
Dm	1	MAATLTEAGTGPAATREFVEG---WTLAQTLGEGAYGEVALLINROT--GGCCCMKMDLK-----KNPDAA
Ce	1	MSAASTTSTPAAAAVAPOQPESLYRVQTLGEGAFGEVOLLIVNTKNPEVAAMKKINIAN-----KSKDFI
Sp	1	-----MAQKLDNFPYHLCREIGTGAFASVRLCYDDNA--KIVAVKFVNKKHATSCMNAGVWA
Hs	50	ENIKKEICINKMLN--NENVVKFYGHRRREGNICYLFLEYCSGGELFDRIEPDIGMPEPDAQRFPHQLMAG
Dm	63	NSVRKEVCIOKMLQ---DKNILLRFFGKRSQGSVEYLFLEYAAGGELFDRIEPDVGMPEQHEAQRYFTQLLSG
Ce	67	DNIRKEYLLOKRVSAVGNDNVIRMIGMRNDPQFYLLFLEYADGGELFDKIEPDCGMSPVFAQFYERQLICG
Sp	54	RRMASEIOLHKLGN--GNKNIIHFYNTAENPQWRWVLEFAAGGDLFDKIEPDVGIDEDVAQFYFAQLHEG
Hs	118	VVYLH-GIGITHRDIKPENLLLDEHDNLKISDFGLATVFRYN--NRERLLNKCCTLPYVAPELLKRRE-FH
Dm	131	LNVLH-QRGIAHRDIKPENLLLDEHDNVKISDFGMATHFRCK--GKERLLDKRCCTLPYVAPEVLQRAY--Q
Ce	138	LKFIH-DNDYVHRDIKPENLLLTGTHVLKISDFGMATLYRNK--GERLLDLSCCTIPYAAPELCAGKK-VR
Sp	125	ISFMH-SKGYAHRDLKPENILLDYNLKNKISDFGFASLESYK--GKSRLLNSFVGSPPYAAPEITQQYD---
Hs	186	AEPVDVWSSCGIVLTAMLGELPWDQPSDSQCEYSDWKEKKTYLN--PWKKIDSAPLALLEKILVEMPSARI
Dm	198	PQPADLWSSCGVILVTMLGELPWDQPSSTNCTEETNWRDNDHWQLQTPWSKIDTLAISLLRKILLATSPGTR
Ce	206	GFPVDVWSSCGIVLTAMLGELPWDRAASASQSYHGWISNTSLDER--PWKKIDVRALCMLRKIVDKTDKRA
Sp	191	GSKVDVWSSCGIILFALLLGNTPWDSAISNTGDYLLYKRCERPSYHPWNLSPGAYSIITGHLRSDPFKRY
Hs	255	TIPDIKKDRWYNKPLKKGAKRPRVTSQGVSESPSGFSKHIQSNLDFSPVNSASSEENVKYSSSQPEPRTCG
Dm	270	TLEKTLDEKWCNMQFADNERSYDLBDSAAALEICSPKAKRORLQSSAHLNGLDDSIERNYCSQPEPTMRT
Ce	277	TIEQIQADPWYQH-----NFGQV--ETPNGRFLKRRNND-----ENITCTQQAECSAK
Sp	262	SVKHVVQHPWLTSTPRTKNGNCADPVALASRLMLKRLRIDLD-KPRLASSRASQNDSCFSMTQPAFKND
Hs	326	SLWDTSPSYIDRV-----QGISFSQPTCFDHLNLSQLLCTPCSSSQNPQRLVK
Dm	341	DDDFNVRLGSGRLQ-----GGWRRPQTLAQEARLSYSFSQPALLDLDLLATQHNCTONASQNPQRLVR
Ce	335	RR-HLETPNEKSSLAER-----QNASFSQPTKTEDLLTQHIDHSQTN--NLLQRHVC
Sp	332	QKELDRVEVYCALSQPV-----QLNKNIDVTEILKRPDLSQFCENEGFI-----KRLAK
Hs	376	R-----MTRFFTK--LDADKSYQCLKETCEKLGQWKKSCMMQVTTSTTORRNNKLFKVNLL
Dm	405	R-----MTRFFVTTRWDOTI-KRLVGTIERLGGYTCKFGDDGVVTVSTVQKRLVFKANIIE
Ce	374	R-----MTRFCVV--TDLRSTYQKVARASEHAGFLRETDDYRLVLTMRVSMMSVSLYMGDIP
Sp	371	KAKNEYEICPPRLTRFYSR-----ASRETIIDHLYDSLRLLANSVTMKYVRN-QTILYVNLHD
Hs	433	MDDKIL-----VDFRLSKGDGLEFKRFLKIKCKLID-IVSSQXVWLEAT-----476
Dm	463	MDGKIL-----VDCRLSKGCGLEFKRFLIKIKNALEDIVLKGPTTTPAIATNSVP-----513
Ce	431	DKPRVM-----VDFRSSRGDGLQFKKNFMDVRNRMHEWICGSPFLDMCQEIRR--479
Sp	440	KRKCLL--QGVLELTNIGHNLELINFIKRNQDPLEWRKFKNVVSSIGKPLVLTQVSN-----496

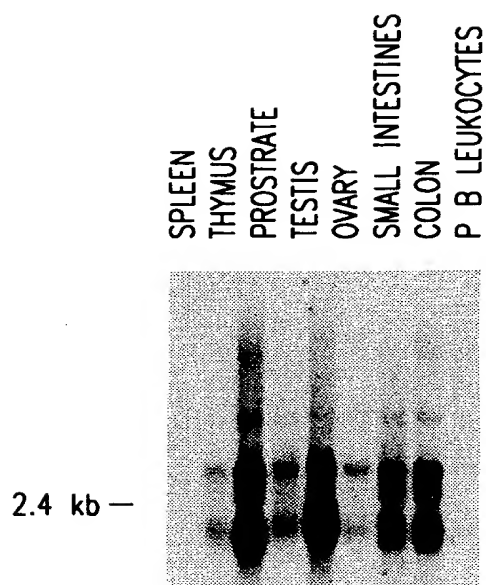


FIG. 5A

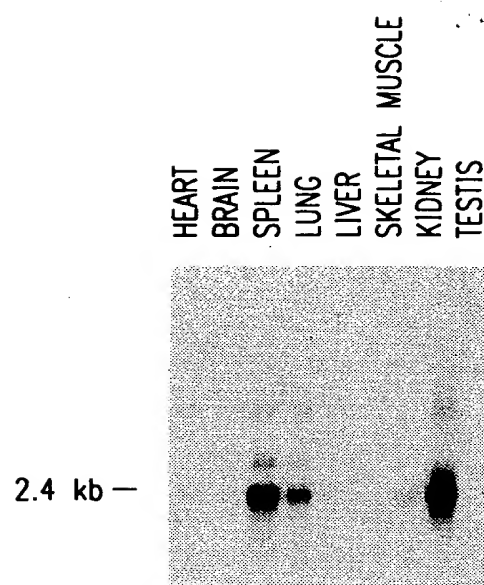


FIG. 5B

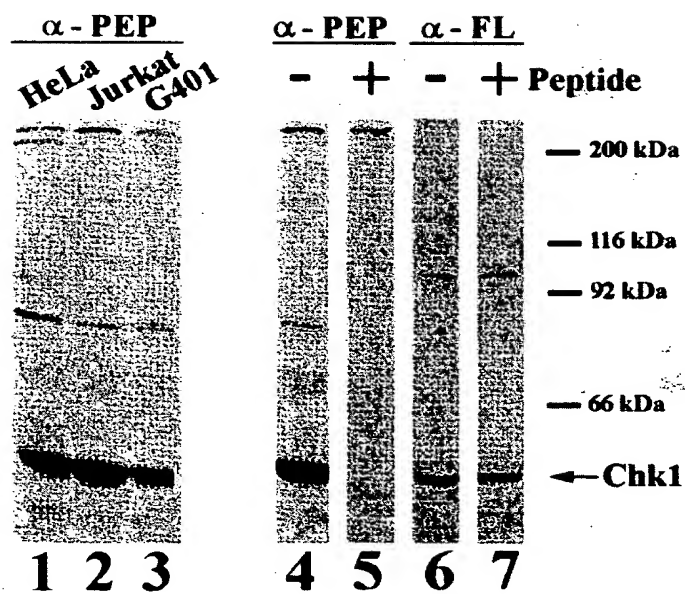


FIG. 6

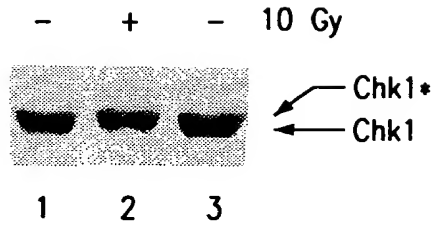


FIG. 7A

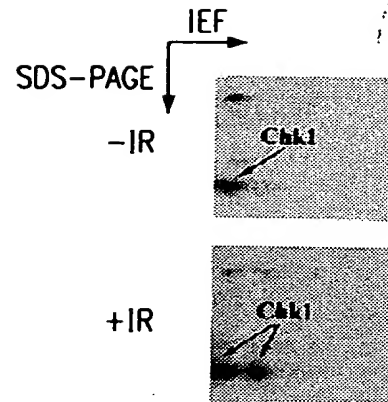


FIG. 7B

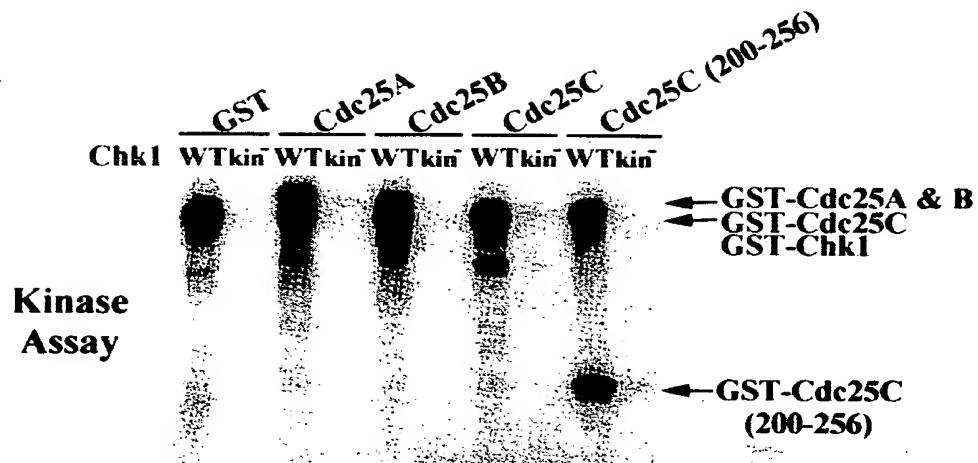


FIG. 8A

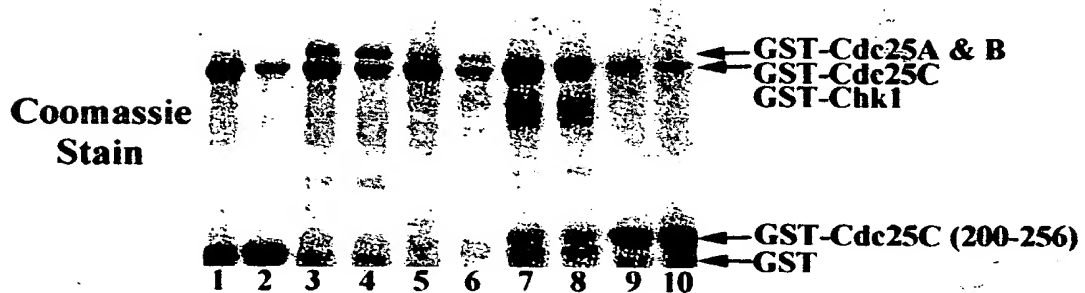


FIG. 8B

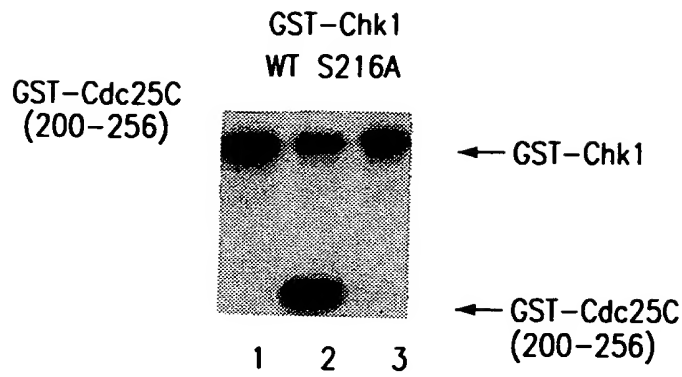


FIG. 9A

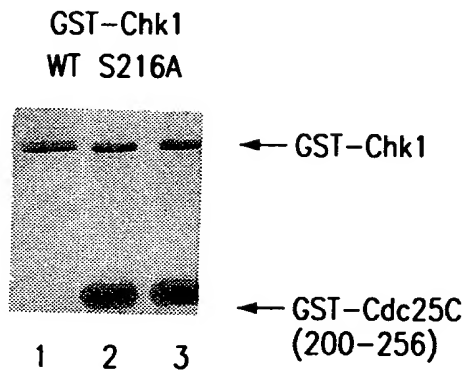


FIG. 9B

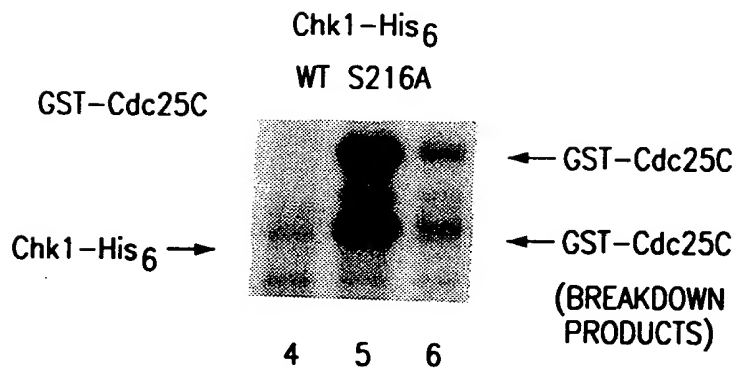


FIG. 9C

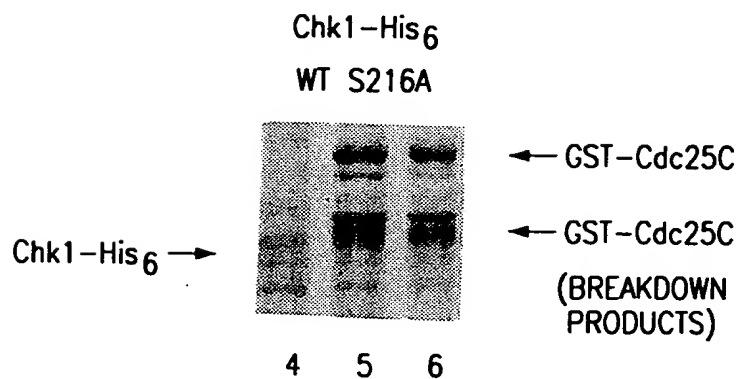


FIG. 9D

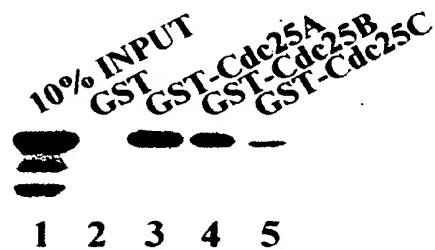


FIG. 10

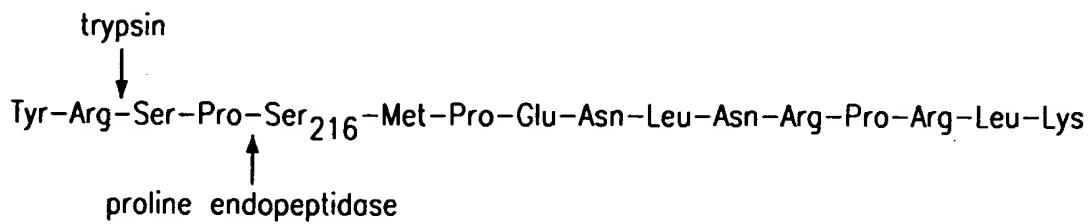
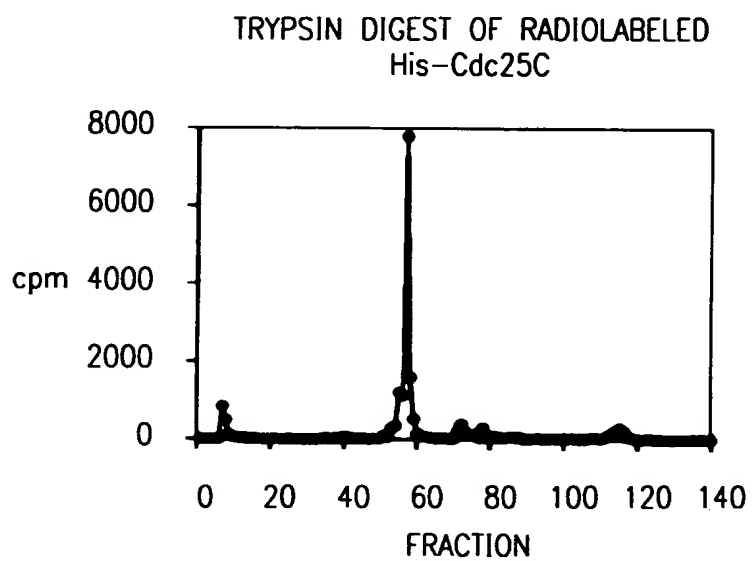
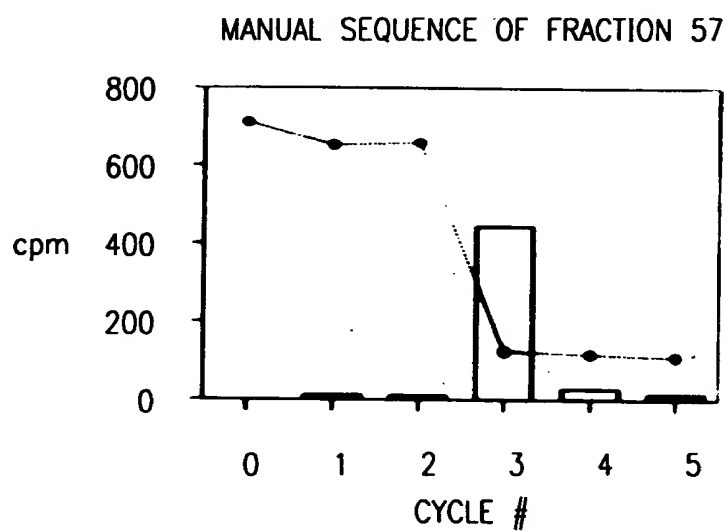


FIG. 11

*FIG. 12A**FIG. 12B*